



**WORLD'S BEST  
ALLOY BULLBARS**

**Strongest Built  
Australian Made  
Lifetime Warranty**

**PN: NBM250SY**



**Fitting Guide &  
Owners Manual  
MITSUBISHI EXPRESS  
Van GLX 03/2020**

76mm NUDGE BAR  
VEHICLE FRONTAL PROTECTION SYSTEM (VFPS)  
FOR AIR BAG & ADR COMPLIANT VEHICLES



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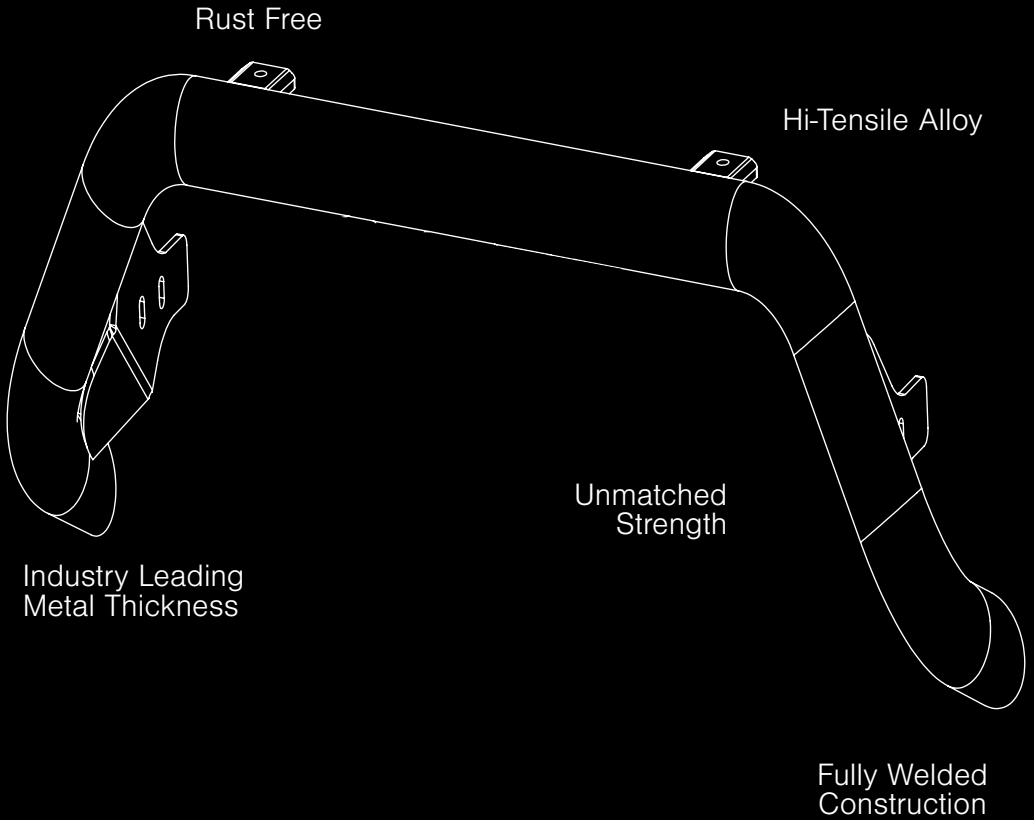
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# The Features of ECB



# ECB's Benefits

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## **Built to Perform - Not to a Price**

ECB are proud to claim that their channels are not jigsaw puzzles that are bolted together, or even multiple sections welded together. Where any welding is required, it is done to the highest standards by qualified welders, not machines.

## **Anti-Corrosive Nature of Alloy**

The composition of ECB's alloy has a very high resistance to corrosion. Rust not only looks unappealing but greatly reduces the strength of the metal. Rust can and will weaken the structural integrity of a steel bullbar effectively rendering it useless over time.

## **Australian Made**

Established in 1971, we utilise decades of experience designing, engineering and building products in Australia to suit Australian conditions. We can ensure the best quality controls and help support the local economy and employ over 90 proud Australians.

## **Weight Saving Benefits**

An ECB alloy bullbar is typically half the weight of a steel bullbar. Unnecessary suspension upgrades are not required. The reduced weight also contributes to increased fuel economy and less wear and tear on tyres, suspension and braking components.

## **Welds That Work**

ECB uses only the strongest welds and welding techniques to ensure every product is as structurally sound as possible. MIG (Metal Inert Gas) welding techniques are employed ensuring the welds are as thick as the thickest section of alloy's being joined together.

## **Lifetime Warranty**

ECB provide a lifetime warranty and consumer guarantee on all of our manufactured products. This guarantee highlights the confidence in our ability and provides complete peace of mind for your purchase for the lifetime you own your vehicle.

# Product Care

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## Polished Products

Being a premium mirror polished finish, regular maintenance will be required to keep that iconic ECB shine. We recommend using our own brand of Aluminium Polish. This formula has been tried and tested and in our opinion is the world's best standard.

**Directions:** Apply a small quantity of Aluminium Polish to a clean soft cloth and rub the metal surface. The longer the rubbing the brighter the surface becomes. Wipe off Aluminium Polish with clean soft cloth. Also suitable for motorised buffing machines. **Note: There are more specific details on the polish bottle. Please read before use.**

## Powdercoated Products

Our powdercoated finishes are very low maintenance. Infact there is actually very little you will ever need to do for this product. Just clean it as you would your car and it will stay looking good as new.

## ECB Aluminium Polish

When you're looking for that showroom finish look for your polished automotive products, you can depend on the no compromise quality of East Coast Bullbars Aluminium Polish. This specifically designed product is the best polish available and we guarantee that this \$#!+ works. Within our decades of manufacturing polished alloy products we have trialed a large range of different polishes on the market and believe without a doubt that nothing beats the finish quality of East Coast Bullbars Aluminium Polish.

East Coast Bullbars Aluminium Polish is excellent for use by hand and is ideal for polished bullbars, nudge bar and stainless steel products. This polish will clean, polish and protect your product from the elements whilst bringing your products back to that showroom finish look.



# NBM250SY

## Stage 1

- Test drive vehicle to ensure all driver assists are correctly working and to gauge effectiveness. Park on a flat level surface.
- Apply parking brake and lift bonnet.
- Unwrap ECB Protection bar and disconnect mounts. Discard bolts.
- Ensure these instructions are left with the vehicle owner / operator.



## Stage 2

- Lift bonnet, remove four (4) 10mm head bolts from the top of grille. Remove bonnet safety catch cable from the latch. To remove the grille, lift upward to release lower clips.

**Caution:** Do not close bonnet with safety catch disconnected and grille in place. Bonnet safety catch is not accessible.



## Stage 3

- Remove two (2) 10mm head bolts from grille opening.
- Remove two (2) T15 torx head bolts from wheel arch (per side).
- Remove three (3) 10mm head bolts from under bumper.
- Unplug wiring harness from passenger side beside headlight and remove bumper.



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## Stage 4

- Unclip intercooler air shoot from radiator and remove from vehicle.
- Unclip bumper stiffener from bumper support. Remove two (2) 10mm head screws, remove stiffener.



## Stage 5

- Remove horn from bumper reinforcement, one 13mm head bolt.



## Stage 6

- Fit ECB steel mounting brackets (supplied) onto bumper support using inner and outer brackets with M10 x 1.5 x 70mm bolts, flat washers, and nyloc nuts (supplied) on outer, M10 x 1.5 x 85mm bolts, flat washer, nyloc nuts (supplied) on inner.
- On drivers side inner use M10 x 1.5 x 100mm bolts, flat washers and nyloc nuts (supplied).
- Place one (1) M8 x 1.25 x 110mm bolt, flat washers and nyloc nuts (supplied) (per side) through crash can.



**NOTE:** DRIVERS SIDE INNER BRACKET HAS SPACERS TO FIT OVER TOW POINT.

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## Stage 7

- Measure outside of alloy mount on protection bar and set inside of steel mounting brackets to suit.
- Align and **tighten all bolts.**



## Stage 8

- Reverse bend on horn bracket lugg and relocate horn to inside of outer mount.
- Drill a 8mm hole into bumper support and fix horn with M8 x 1.25 x 30mm bolt and washer on wire, flat washer, spring washer and nut (supplied).

**Blow filings clear and treat all exposed metal with**



## Stage 9

- Mark and trim intercooler shoot to fit over steel mounting brackets.





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## Stage 10

- Using measurement of steel mounting brackets, mark and neatly trim bumper grille to fit over steel mount.
- Grille was removed for photo.



## Stage 11

- Refit bumper and grille in the reverse stages of 2 and 3.
- Bumper fitted over steel mounting brackets. Note: grille was removed for photo.



## Stage 12

- Fit protection bar onto steel mounting brackets using four (4) M10 x 1.5 x 40mm bolts, flat washers, spring washers and nuts (supplied).
- Align protection bar with vehicle, front face must be horizontal, tighten all bolts.
- Check that tow pin fits into coupling.



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## Stage 13

- Road test vehicle to ensure all safety equipment is working as per previously completed test.

## Final Checks

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### Ensure Number Plate is Clearly Visible

Note: When fitting/refitting the licence plate to the vehicle, ensure there is no obstruction to licence plate vision in accordance with local authorities. If required relocate licence plate to an alternate location.

### Further VFPS Notes

1. Do not attach VFPS to the vehicle using anchorages not intended for this purpose (e.g. engine mounting bolts).
2. Do not use this product for any vehicle make or model, other than those specified by the VFPS manufacturer.
3. Do not remove the plaque or label from the VFPS.
4. Do not modify the structure of the VFPS in any way.
5. No accessory or fitment should project forward of the VFPS forward profile.
6. **Ensure these instructions are left with the vehicle owner and/or operator.**

### Important Information

Periodically check bolts and nuts for correct tightness, especially if traveling on rough roads.

# Installation Kit

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1 - Pair steel mounting brackets	4 - M10 spring washers
1 - Right hand inner bracket	8 - M10 x 1.5 nyloc nuts
1 - Left hand inner bracket	4 - M10 x 1.5 nuts
2 - Outer steel brackets	1 - M8 x 1.25 x 30mm bolt and washer on wire
2 - M10 x 1.5 x 100mm bolts	2 - M8 x 1.25 x 110mm bolt
2 - M10 x 1.5 x 85mm bolts	5 - 5/16 x 1 1/4 flat washers
4 - M10 x 1.5 x 70mm bolts	1 - M8 spring washer
4 - M10 x 1.5 x 40mm bolts	1 - M8 nut
24 - M10 flat washers	2 - M8 nyloc nuts

# Finished Product

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# Warranty Registration

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## Contact Details

Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Product: **NBM250SY** \_\_\_\_\_

Email: \_\_\_\_\_

Phone: \_\_\_\_\_

Work Order Number: \_\_\_\_\_

You can find this on the silver label  
of your ECB product.

By submitting this registration you automatically subscribe to ECB's mail outs. You  
can unsubscribe at any time.

## Register Online

For online registration please go online to [www.ecb.com.au/warranty-registration](http://www.ecb.com.au/warranty-registration)  
If you have any questions please contact our national office on 1800 069 145 or  
[www.ecb.com.au](http://www.ecb.com.au).



**PN: NBM250SY**  
**Please post to PO Box 122,**  
**Margate QLD 4019**

# Notes

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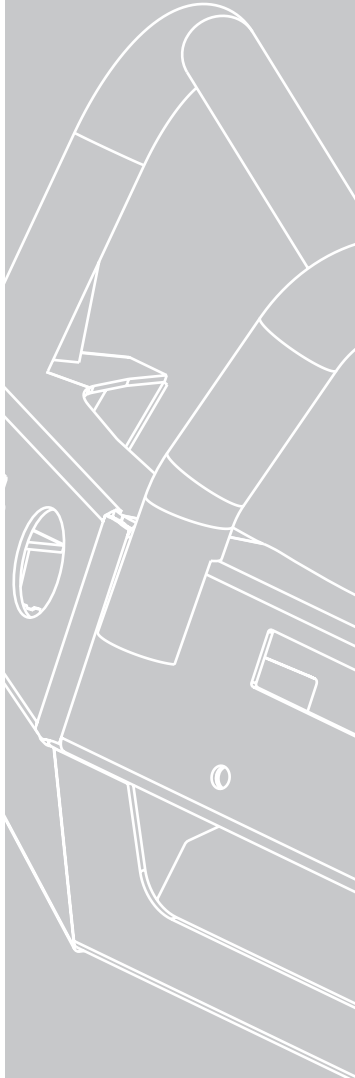
REPLACES: 03.09.2020

REVISED: 20.11.2020

**Revisions:**

20.11.20 - Kevin - lines covered in despatch checklist

15.07.21 - JL Australian Made Logo repair only



1800 069 145  
[www.ecb.com.au](http://www.ecb.com.au)

**Strongest Built  
Australian Made  
Lifetime Warranty**

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